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LISTING OF CLAIMS

and

Please amend Claims 12 and 22 as shown.

1-11. (Canceled)

12. (Currently Amended) A method of forming a trench MOSFET comprising: providing a semiconductor wafer of a first conductivity type;

depositing an epitaxial layer of said first conductivity type over said wafer, said epitaxial layer having a lower majority carrier concentration than said wafer;

forming a body region of a second conductivity type within an upper portion of said epitaxial layer;

providing a patterned first masking material layer over said epitaxial layer, said patterned first masking material layer comprising a densified non-doped silica glass layer overlaid by a positive photoresist material, and said patterned first masking material layer comprising a first aperture;

depositing a second masking material layer over said first masking material layer, said second masking material layer comprising a densified non-doped silica glass layer;

etching said second masking material layer until a second aperture is created in said second masking material layer within said first aperture, said second aperture being narrower than said first aperture;

forming a trench in said epitaxial layer by etching said semiconductor wafer through said second aperture;

forming an insulating layer lining at least a portion of said trench;

forming a conductive region within said trench adjacent said insulating layer; and forming a source region of said first conductivity type within an upper portion of said body region and adjacent said trench,

wherein said source region is formed subsequent to said step of forming a trench,

wherein a lateral thickness of said source region is independent of the measurement of the distance between the first and second apertures.

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- 13. (Original) The method of claim 12 wherein said patterned first masking material layer is provided over said semiconductor wafer by a method comprising: providing a first masking material layer over said epitaxial layer; applying a patterned photoresist layer over said first masking material layer; and etching said first masking material layer through an aperture in said patterned photoresist layer such that said first aperture is formed in said first masking material layer.
- 14. (Original) The method of claim 12, wherein said semiconductor wafer is a silicon wafer and said epitaxial layer is a silicon epitaxial layer.
- 15. (Original) The method of claim 12, wherein said first and second masking material layers are of the same material composition.
- 16. (Original) The method of claim 14, wherein said first and second masking material layers are silicon dioxide layers.
- 17. (Original) The method of claim 12, wherein said process of etching said second masking material is an anisotropic, dry oxide etching process.
- 18. (Original) The method of claim 12, wherein said process of etching said semiconductor is an anisotropic, reactive ion etching process.
- 19. (Original). The method of claim 13, wherein said photoresist layer is a positive resist layer.
- 20. (Original) The method of claim 13, wherein said processes of etching said first and second masking material layers are anisotropic, dry oxide etching processes.

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- 21. (Original) The method of claim 12, wherein said first trench mask aperture ranges from 0.4 to 0.8 microns in smallest dimension and said second trench mask aperture ranges from 0.2 to 0.6 microns in smallest dimension.
 - 22. (Currently Amended) A method of forming a trench MOSFET comprising: providing a semiconductor wafer of a first conductivity type;

depositing an epitaxial layer of said first conductivity type over said wafer, said epitaxial layer having a lower majority carrier concentration than said wafer;

forming a body region of a second conductivity type within an upper portion of said epitaxial layer;

providing a patterned first masking material layer over said epitaxial layer, said patterned first masking material layer comprising a densified non-doped silica glass layer overlaid by a positive photoresist material, and said patterned first masking material layer comprising a first aperture;

depositing a second masking material layer over said first masking material layer, said second masking material layer comprising a densified non-doped silica glass layer;

etching said second masking material layer until a second aperture is created in said second masking material layer within said first aperture, said second aperture being narrower than said first aperture;

forming a trench in said epitaxial layer by etching said semiconductor wafer through said second aperture; and

removing the first masking material layer and the second masking material layer prior to performing the following steps:

forming an insulating layer lining at least a portion of said trench;

forming a conductive region within said trench adjacent said insulating layer; and forming a source region of said first conductivity type within an upper portion of said body region and adjacent said trench.

wherein said step of forming a source region is performed subsequent to said step of forming a trench.